

**TABLE 9.1**  
**CLIMATIC ZONE 99**

No-till C Factors - High production (Corn 150 bu, Soybeans 45 bu)

Corn after	Not cultivated									Cultivated								
	10	20	30	40	50	60	70	80	90	10	20	30	40	50	60	70	80	90
corn					.030	.024	.019	.014	.010			.11	.09	.075	.06	.045	.037	
corn silage w/cover					.047	.037	.028	.02					.07	.059	.048	.040	.033	
corn silage	.12*									.24*								
small grain-baled		.13	.10	.075							.17	.13	.11					
soybeans			.085	.07	.056	.047					.19	.16	.14	.13				
soybeans w/narrow row			.115	.09	.07	.055					.18	.15	.13	.115				
small grain			.074	.058	.046	.036	.028				.13	.10	.082	.069	.057	.045		
meadow		.025	.019	.014	.011	.008					.053	.043	.034	.028	.023			

Wide Row Soybeans after	Not cultivated									Cultivated								
	10	20	30	40	50	60	70	80	90	10	20	30	40	50	60	70	80	90
corn				.042	.034	.028	.022	.016			.12	.09	.075	.064	.053	.045	.036	
corn silage w/cover					.05	.046	.042	.038				.09	.076	.066	.056	.048	.042	
corn silage	.19*									.32*								
small grain-baled			.12	.085							.19	.16	.132	.11				
soybeans		.11	.095	.08	.07	.06					.21	.18	.16	.14	.13			
meadow		.028	.02	.016	.012	.008					.052	.042	.034	.028	.022			

Narrow Row Soybeans after	Not cultivated									Cultivated								
	10	20	30	40	50	60	70	80	90	10	20	30	40	50	60	70	80	90
corn			.046	.038	.03	.024	.018	.015			.066	.053	.043	.036	.030	.025	.021	
corn silage w/cover					.05	.042	.034	.026			.092	.078	.063	.054	.046	.04	.034	
corn silage	.17*									.23*								
small grain-baled		.13	.10	.082														
soybeans w/narrow row		.11	.088	.07	.055	.04												
meadow		.026	.018	.012														

Spring Small Grain (Baled) after	Not cultivated									Cultivated								
	10	20	30	40	50	60	70	80	90	10	20	30	40	50	60	70	80	90
corn		.019	.014	.011	.009	.007	.005				.019	.014	.011	.009	.007	.005		
corn silage	.045*									.052*								
soybeans		.036	.028	.022	.016	.013					.042	.034	.028	.024	.020			
soybeans w/narrow row		.038	.029	.024	.018	.015												

\* - Residue levels will normally be below 10% cover.

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**CLIMATIC ZONE 99**

No-till C Factors - High production (Corn 150 bu, Soybeans 45 bu)

Corn Silage after	Not cultivated									Cultivated								
	10	20	30	40	50	60	70	80	90	10	20	30	40	50	60	70	80	90
corn					.03	.025	.2	.015			.12	.09	.075	.060	.05	.042	.035	
corn silage	.16									.31*								
small grain-baled		.13	.10	.085							.20	.16	.13	.11	.10	.09		
soybeans			.09	.077	.066	.059					.20	.16	.155	.14	.13			
soybeans w/narrow row			.10	.09	.075	.064					.19	.16	.14	.12	.11			
meadow		.022	.016	.012	.008						.045	.036	.03					

Oats w/ meadow after	Not cultivated									Cultivated								
	10	20	30	40	50	60	70	80	90	10	20	30	40	50	60	70	80	90
corn			.006	.005	.004	.003	.003	.002			.008	.006	.005	.004	.003	.003	.002	
corn silage	.040									.058*								
soybeans		.013	.01	.008	.007						.02	.016	.013	.011	.009			
soybeans w/narrow row		.017	.013	.010	.008	.005												

Corn Silage w/cover after	Not cultivated									Cultivated								
	10	20	30	40	50	60	70	80	90	10	20	30	40	50	60	70	80	90
corn				.035	.027	.023	.017	.015					.065	.052	.04	.031	.025	
corn silage w/cover		.10	.08	.063	.05	.04	.03	.023			.13	.11	.085	.07	.055	.045	.035	
soybeans			.068	.052	.04	.03	.023	.016				.12	.10	.08	.062	.05		
soybeans w/narrow row			.082	.064	.05	.038	.028	.019				.11	.086	.072	.06	.05	.042	

\* - Residue levels will normally be below 10% cover.

**TABLE 9.1**  
**CLIMATIC ZONE 99**

No-till C Factors -Medium production (Corn 125 bu., Soybean 35)

Corn after	Not cultivated									Cultivated								
	10	20	30	40	50	60	70	80	90	10	20	30	40	50	60	70	80	90
corn					.036	.029	.022	.017						.075	.062	.052	.045	
corn silage w/cover					.06	.045	.033						.10	.085	.07	.055		
corn silage	.14*									.28*								
small grain-baled		.15	.11	.09	.07						.19	.16	.13	.11	.10			
soybeans			.095	.08	.067						.215	.19	.167	.154				
soybeans w/narrow row			.13	.10	.075						.205	.18	.16	.145				
meadow				.016	.012	.009					.059	.047	.038	.042	.027			

Wide Row Soybeans after	Not cultivated									Cultivated								
	10	20	30	40	50	60	70	80	90	10	20	30	40	50	60	70	80	90
corn				.052	.042	.034	.026	.02			.14	.12	.095	.08	.007	.057	.047	
corn silage w/cover				.099	.082	.06	.043	.033			.14	.12	.098	.084	.074	.074	.064	
corn silage	.22*									.37*								
small grain-baled		.18	.13	.09							.23	.19	.16					
soybeans		.14	.11	.10	.085						.24	.21	.19	.175	.16			
meadow		.032	.024	.018	.014	.010					.06	.048	.04	.034	.023			

Narrow Row Soybeans after	Not cultivated									Cultivated								
	10	20	30	40	50	60	70	80	90	10	20	30	40	50	60	70	80	90
corn					.038	.032	.024	.018			.091	.074	.061	.051	.043	.036	.03	
corn silage w/cover				.08	.064	.052	.042					.11	.09	.078	.068	.058		
corn silage	.22*									.28*								
small grain-baled		.16	.12	.10														
soybeans w/narrow row		.13	.10	.07	.055	.044	.035											
meadow		.03	.022	.015														

Spring Small Grain (Baled) after	Not cultivated									Cultivated								
	10	20	30	40	50	60	70	80	90	10	20	30	40	50	60	70	80	90
corn		.022	.017	.013	.10	.008	.006	.005			.022	.017	.013	.10	.008	.006	.005	
corn silage	.052*									.066*								
soybeans		.044	.034	.025	.020						.05	.041	.035	.029				
soybeans w/narrow row		.045	.036	.028	.023													

\* - Residue levels will normally be below 10% cover.

**TABLE 9.1**  
**CLIMATIC ZONE 99**

No-till C Factors -Medium production (Corn 125 bu., Soybean 35)

Corn Silage after	Not cultivated									Cultivated								
	10	20	30	40	50	60	70	80	90	10	20	30	40	50	60	70	80	90
corn				.052	.042	.034	.025	.020			.15	.12	.10	.08	.068	.058	.048	
corn silage		.20								.36*								
small grain-baled		.16	.13	.11							.24	.19	.16	.13	.11			
soybeans		.13	.11	.10	.087						.24	.21	.19	.18				
soybeans w/narrow row		.16	.13	.11	.10						.24	.21	.19					
meadow		.028	.020	.015	.010						.056	.046	.038					

Oats w/meadow after	Not cultivated									Cultivated								
	10	20	30	40	50	60	70	80	90	10	20	30	40	50	60	70	80	90
corn			.007	.006	.005	.003	.002	.002			.009	.007	.006	.005	.004	.003	.002	
corn silage		.044*									.066*							
soybeans		.016	.012	.01	.008						.023	.019	.015	.013				
soybeans w/narrow row		.019	.014	.011	.008													

Corn Silage w/cover after	Not cultivated									Cultivated								
	10	20	30	40	50	60	70	80	90	10	20	30	40	50	60	70	80	90
corn				.056	.045	.035	.026	.019					.10	.08	.065	.05	.035	
corn silage w/cover		.12	.092	.074	.06	.046	.036	.029			.16	.125	.10	.08	.067	.055		
soybeans			.10	.08	.062	.048						.17	.14	.12	.095			
soybeans w/narrow row			.12	.082	.068	.050						.15	.13	.11	.10			

\* - Residue levels will normally be below 10% cover.

**TABLE 9.1**  
**CLIMATIC ZONE 99**

No-till C Factors -Low production (Corn 100 bu., Soybean 25 bu.)

Corn after		Not cultivated									Cultivated								
		10	20	30	40	50	60	70	80	90	10	20	30	40	50	60	70	80	90
	corn					.048	.039	.030							.10	.085	.072		
	corn silage w/cover					.077	.058	.043						.13	.11	.09	.075		
	corn silage	.19*									.36*								
	small grain-baled		.19	.14	.11	.085						.24	.20	.17	.15	.12			
	soybeans		.14	.12	.103	.09	.08					.26	.23	.21	.20	.19			
	soybeans w/narrow row		.19	.15	.115	.09	.07					.24	.21	.19	.18				
	small grain-		.15	.11	.09	.07	.056					.19	.15	.12	.10	.085			
	meadow		.036	.028	.022	.017	.013					.074	.058	.048	.042	.035			

Wide Row Soybeans after		Not cultivated									Cultivated								
		10	20	30	40	50	60	70	80	90	10	20	30	40	50	60	70	80	90
	corn				.07	.058	.048	.038				.19	.16	.13	.11	.095	.08		
	corn silage w/cover				.12	.10	.075	.059						.15	.13	.11	.096		
	corn silage	.28*									.41*								
	small grain-baled		.22	.16	.11							.29	.24	.21					
	soybeans		.17	.15	.13							.30	.27	.25	.23				
	meadow		.042	.032	.026	.02	.015					.08	.065	.054	.046	.04			

Narrow Row Soybeans after		Not cultivated									Cultivated								
		10	20	30	40	50	60	70	80	90	10	20	30	40	50	60	70	80	90
	corn				.064	.052	.042	.032				.11	.093	.077	.064	.054	.045		
	corn silage w/cover				.10	.083	.066	.054					.13	.11	.096	.084	.072		
	corn silage	.26*									.34*								
	small grain-baled		.20	.16															
	soybeans w/narrow row		.15	.12	.095														
	meadow		.038	.022	.015														

\* - Residue levels will normally be below 10% cover.

**TABLE 9.1**  
**CLIMATIC ZONE 99**

No-till C Factors -Low production (Corn 100 bu., Soybean 25 bu.)

Spring Small Grain (Baled) after	Not cultivated									Cultivated								
	10	20	30	40	50	60	70	80	90	10	20	30	40	50	60	70	80	90
corn		.034	.026	.021	.016	.013	.010				.034	.026	.021	.016	.013	.010		
corn silage		.084*									.10*							
soybeans		.062	.046	.036	.026						.072	.06	.052	.045				
soybeans w/narrow row		.064	.051	.042														

Corn Silage after	Not cultivated									Cultivated								
	10	20	30	40	50	60	70	80	90	10	20	30	40	50	60	70	80	90
corn			.095	.076	.062	.05	.04				.21	.17	.14	.12	.10	.087		
corn silage	.28									.47*								
small grain-baled		.21	.18	.15							.32	.24	.21	.17				
soybeans		.19	.16	.145	.13						.32	.295	.275					
soybeans w/narrow row		.19	.16	.14							.30	.27	.25					
meadow		.040	.030	.024	.018						.08	.066	.056					

Oats w/meadow after	Not cultivated									Cultivated								
	10	20	30	40	50	60	70	80	90	10	20	30	40	50	60	70	80	90
corn			.009	.007	.005	.005	.004				.011	.009	.007	.006	.005	.004	.003	
corn silage		.058*									.078*							
soybeans		.018	.014	.011							.027	.022	.019	.017				
soybeans w/narrow row		.02	.016	.012	.009													

Corn Silage w/cover after	Not cultivated									Cultivated								
	10	20	30	40	50	60	70	80	90	10	20	30	40	50	60	70	80	90
corn				.077	.06	.046	.035	.025					.14	.11	.085	.065	.05	
corn silage w/cover		.16	.12	.097	.078	.06	.047				.21	.16	.13	.11	.09	.07		
soybeans		.16	.13	.098	.076	.058					.26	.21	.17	.14	.12			
soybeans w/narrow row		.20	.15	.11	.084	.07												

\* - Residue levels will normally be below 10% cover.